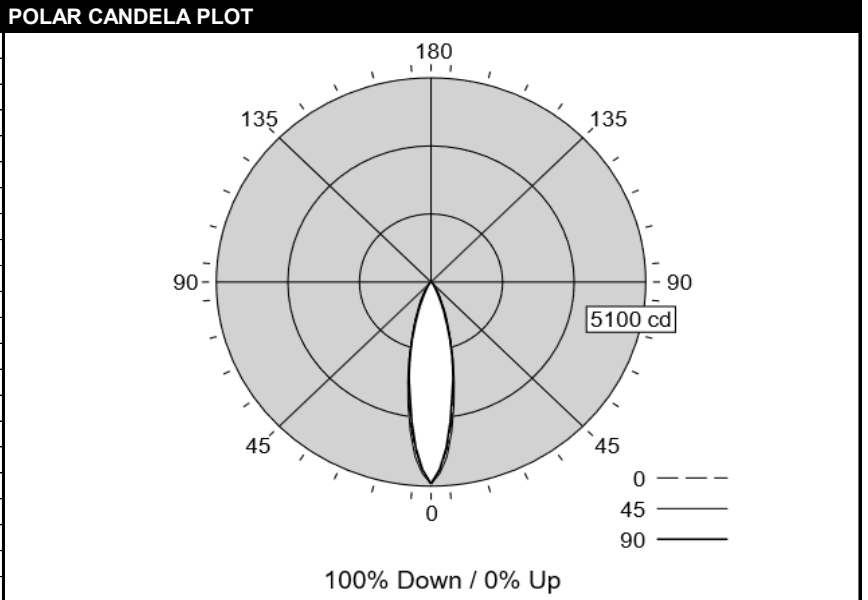


LEDALITE - TG SUSPENDED/SURFACE/WALL MICRO



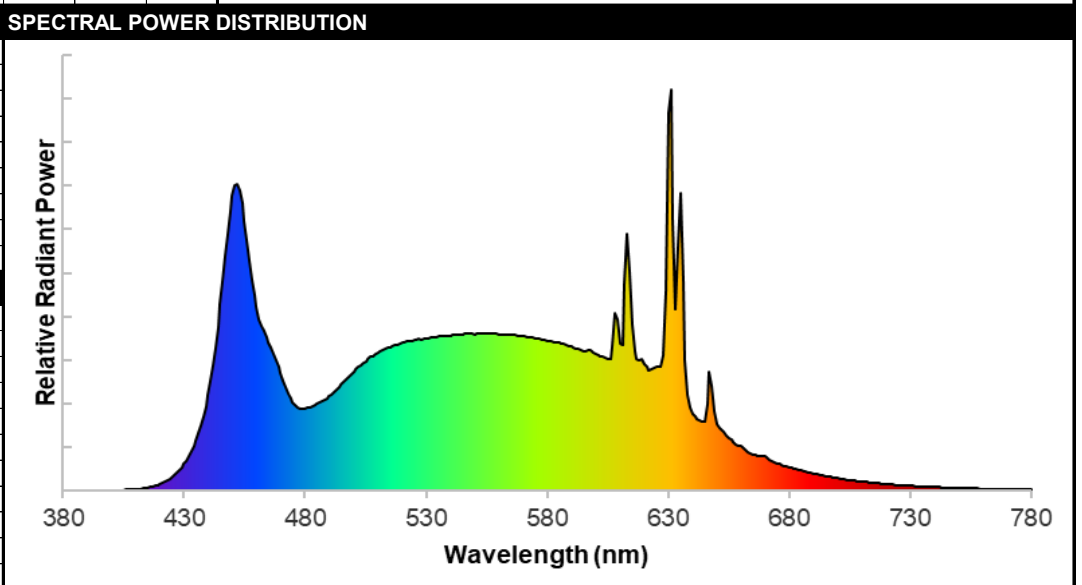
| | | | |
|--------------------------------|--------------|--------------------------------------|-----------------------------|
| TEST DATE: | 02 Feb 2022 | CATALOG NO: | TMxxL950NRWFF15NNN |
| Lamp Type: | LED | Description: | WHT NRW LVR 1500LM DOWN 950 |
| No. of Lamps: | 96 | | |
| Rated Lamp Lumens: | -1 | Flux (lm), Efficiency (%): | 1534 lm 100% |
| Input Watts: | 347 VAC 12.2 | Up/Dn Ratio, Efficacy (lm/W): | 100% Down / 0% Up 125.7 |
| CIE-IES Classification: | Direct | Report: | LNG03327 |

| CANDELA DISTRIBUTION | | | | | | Flux |
|----------------------|------|------|------|------|------|--------|
| | 0 | 22.5 | 45 | 67.5 | 90 | Lumens |
| 0 | 5044 | 5044 | 5044 | 5044 | 5044 | |
| 5 | 4223 | 4519 | 4374 | 4457 | 4157 | 381 |
| 15 | 1924 | 2216 | 2019 | 2156 | 1950 | 576 |
| 25 | 693 | 783 | 696 | 711 | 554 | 332 |
| 35 | 220 | 246 | 214 | 176 | 153 | 136 |
| 45 | 73 | 74 | 67 | 70 | 68 | 57 |
| 55 | 30 | 33 | 32 | 30 | 27 | 28 |
| 65 | 12 | 14 | 15 | 16 | 16 | 15 |
| 75 | 5 | 7 | 7 | 9 | 8 | 8 |
| 85 | 1 | 2 | 2 | 3 | 2 | 2 |
| 90 | 0 | 0 | 0 | 0 | 0 | |
| 95 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125 | 0 | 0 | 0 | 0 | 0 | 0 |
| 135 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 | 0 | 0 | |



| CHARACTERISTICS | | | | | COEFFICIENTS OF UTILIZATION (%) | | | | | | | | | | | | | |
|--|--|--------|--------|------|---------------------------------|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RP1 Meets RP-1-12 recommendations for VDT-Critical spaces | | | | | Pc--- | 80 | | | | 70 | | | 50 | | | 0 | | |
| Direct: Peak Candela & Angle (0°) | | | 5044.1 | 0.0 | Pw--- | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 50 | 30 | 10 | 0 | | |
| Direct: Peak Candela & Angle (90°) | | | 5044.1 | 0.0 | RCR | | | | | | | | | | | | | |
| Spacing Criteria (0°, 90°, 180°) | | 0.41 | 0.40 | N/A | 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | 100 | | |
| Beam (H, V), Field (H, V) | | 24.0 | 24.4 | 51.5 | 56.2 | 1 | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 105 | 104 | 102 | 95 | |
| Indirect: Peak Candela & Angle(°) | | | N/A | N/A | 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 100 | 98 | 95 | 90 | | |
| Indirect: Zenith Candela, Peak to Zenith | | | N/A | N/A | 3 | 105 | 99 | 95 | 91 | 103 | 98 | 94 | 95 | 92 | 89 | 85 | | |
| Luminous Width, Length, Height (ft) | | 0.13 | 4.00 | 0.00 | 4 | 101 | 94 | 89 | 86 | 99 | 93 | 89 | 91 | 87 | 84 | 81 | | |
| DLC, UGR (4H x 8H, 1.0H), MDER | | | N/A | 7.8 | 0.809 | 5 | 97 | 90 | 85 | 81 | 95 | 89 | 84 | 87 | 83 | 80 | 77 | |
| x, y, CCT, D _{uv} | | 0.3420 | 0.3512 | 5121 | 0.0011 | 6 | 93 | 86 | 81 | 77 | 92 | 85 | 80 | 83 | 79 | 76 | 74 | |
| CRI (R _a), R _g , G _a , C _g | | | 93 | 68 | 99 | 94 | 7 | 90 | 82 | 77 | 73 | 88 | 81 | 76 | 80 | 76 | 73 | 71 |
| TM-30-18 R _f , R _{f,h1} , R _g , R _{g,h1} | | | 90 | 89 | 100 | -5% | 8 | 86 | 79 | 74 | 70 | 85 | 78 | 73 | 77 | 73 | 70 | 68 |
| 120V: P(W), I(A), THD(%), PF | | 11.9 | 0.101 | 13.0 | 0.988 | 9 | 84 | 75 | 71 | 67 | 83 | 75 | 70 | 74 | 70 | 67 | 65 | |
| 277V: P(W), I(A), THD(%), PF | | 12.2 | 0.048 | 17.6 | 0.922 | 10 | 81 | 73 | 68 | 65 | 80 | 72 | 68 | 72 | 67 | 64 | 63 | |
| 347V: P(W), I(A), THD(%), PF | | 12.2 | 0.038 | 13.5 | 0.931 | *Based on a floor reflectance of 0.2 | | | | | | | | | | | | |

| ZONAL LUMENS (lm) | | | |
|-------------------|--------|----------|--------|
| Zone | Lumens | %Fixture | %Lamp |
| 0-30 | 1288 | 84.0% | 84.0% |
| 0-40 | 1424 | 92.8% | 92.8% |
| 0-60 | 1509 | 98.4% | 98.4% |
| 0-90 | 1534 | 100.0% | 100.0% |
| 90-130 | 0 | 0.0% | 0.0% |
| 90-150 | 0 | 0.0% | 0.0% |
| 90-180 | 0 | 0.0% | 0.0% |
| 0-180 | 1534 | 100.0% | 100.0% |



| AVG LUMINANCE (cd/m ²) | | | |
|------------------------------------|--------|--------|--------|
| | 0 | 45 | 90 |
| 0 | 104374 | 104374 | 104374 |
| 5 | 87709 | 90856 | 86346 |
| 15 | 41214 | 43260 | 41773 |
| 25 | 15822 | 15891 | 12649 |
| 35 | 5567 | 5406 | 3852 |
| 45 | 2127 | 1958 | 1978 |
| 55 | 1079 | 1158 | 974 |
| 65 | 573 | 730 | 774 |
| 75 | 416 | 560 | 648 |
| 85 | 214 | 380 | 451 |

Output of GLA Calculation Tool for CIE 13.3 CRI and Associated CRI-based Colour Rendition Properties

| | | | |
|--------------|-------------|---------------|---------------------|
| Test Number: | T20201109 | Manufacturer: | Ledalite by Signify |
| Date: | 27 Aug 2020 | Model: | TruGroove Suspended |

| | | | |
|---|--------|---------------------------------------|--------|
| Correlated Colour Temperature (T_{cp}) in K | 5121 | CIE1931 chromaticity coordinate, x | 0.3420 |
| Distance to Blackbody Locus (D_{uv}) | 0.0011 | CIE1931 chromaticity coordinate, y | 0.3512 |
| General Colour Rendering Index (R_a) | 93 | CIE1976 chromaticity coordinate, u' | 0.2095 |
| Red Rendering Index (R_9) | 68 | CIE1976 chromaticity coordinate, v' | 0.4840 |
| Colour Gamut Index (G_a) | 99 | | |
| Red Chroma Index (C_9) | 94 | | |



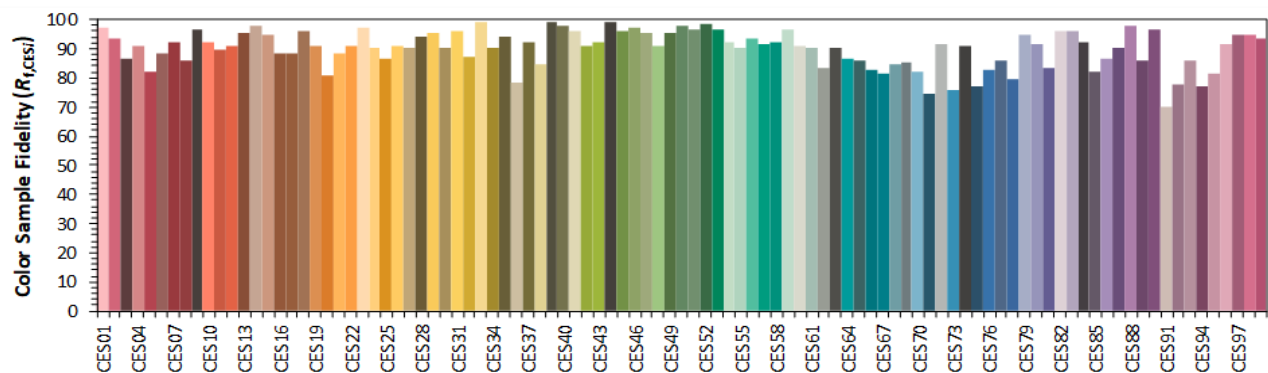
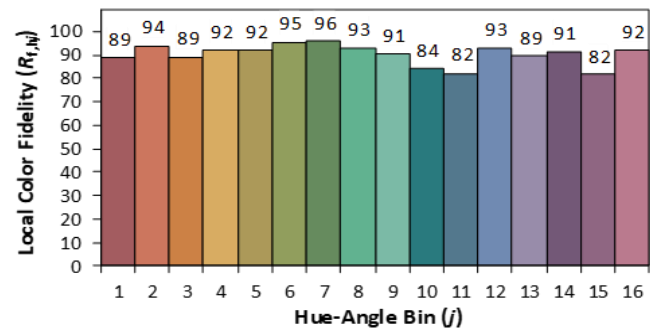
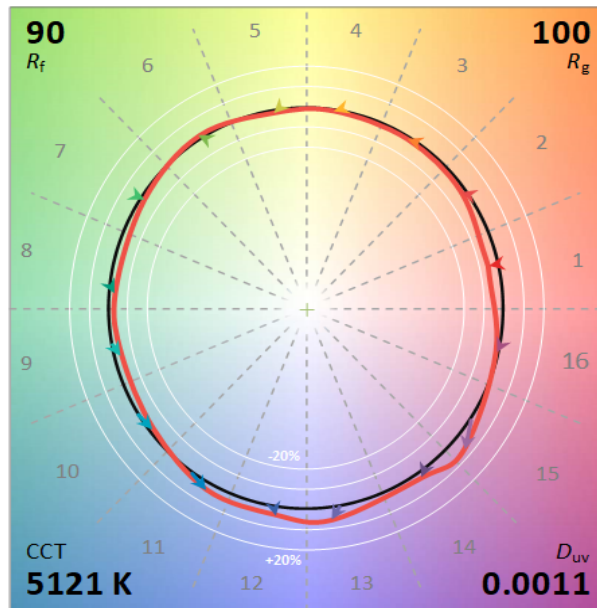
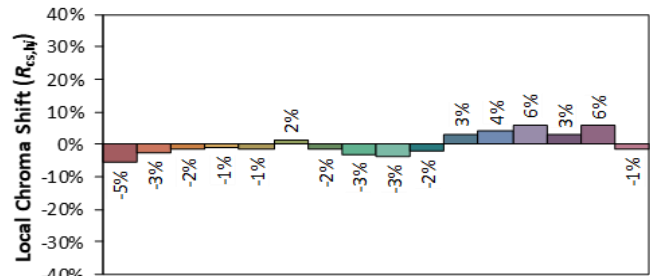
ANSI/IES TM-30-18 Color Rendition Report

Source: T20201109

Manufacturer: Ledalite by Signify

Date: 27 Aug 2020

Model: TruGroove Suspended



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.3420

y 0.3512

u' 0.2095

v' 0.4840

| SPECTRAL POWER DISTRIBUTION | | | | | | | | | | | | | | | | | |
|-----------------------------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|
| λ (nm) | SPD | λ (nm) | SPD | λ (nm) | SPD | λ (nm) | SPD | λ (nm) | SPD | λ (nm) | SPD | λ (nm) | SPD | λ (nm) | SPD | λ (nm) | SPD |
| 380 | 0.00010 | 425 | 0.00600 | 470 | 0.05370 | 515 | 0.06580 | 560 | 0.07190 | 605 | 0.06060 | 650 | 0.03040 | 695 | 0.00680 | 740 | 0.00160 |
| 381 | 0.00020 | 426 | 0.00690 | 471 | 0.05050 | 516 | 0.06650 | 561 | 0.07180 | 606 | 0.06070 | 651 | 0.02900 | 696 | 0.00660 | 741 | 0.00160 |
| 382 | 0.00020 | 427 | 0.00800 | 472 | 0.04730 | 517 | 0.06670 | 562 | 0.07180 | 607 | 0.06610 | 652 | 0.02840 | 697 | 0.00630 | 742 | 0.00150 |
| 383 | 0.00020 | 428 | 0.00920 | 473 | 0.04480 | 518 | 0.06700 | 563 | 0.07170 | 608 | 0.08130 | 653 | 0.02680 | 698 | 0.00620 | 743 | 0.00150 |
| 384 | 0.00020 | 429 | 0.01060 | 474 | 0.04250 | 519 | 0.06750 | 564 | 0.07170 | 609 | 0.07850 | 654 | 0.02520 | 699 | 0.00600 | 744 | 0.00140 |
| 385 | 0.00020 | 430 | 0.01210 | 475 | 0.04070 | 520 | 0.06790 | 565 | 0.07150 | 610 | 0.06720 | 655 | 0.02420 | 700 | 0.00580 | 745 | 0.00140 |
| 386 | 0.00020 | 431 | 0.01380 | 476 | 0.03920 | 521 | 0.06820 | 566 | 0.07130 | 611 | 0.06690 | 656 | 0.02360 | 701 | 0.00560 | 746 | 0.00140 |
| 387 | 0.00030 | 432 | 0.01580 | 477 | 0.03830 | 522 | 0.06850 | 567 | 0.07130 | 612 | 0.09480 | 657 | 0.02240 | 702 | 0.00540 | 747 | 0.00130 |
| 388 | 0.00020 | 433 | 0.01800 | 478 | 0.03770 | 523 | 0.06850 | 568 | 0.07120 | 613 | 0.11790 | 658 | 0.02130 | 703 | 0.00520 | 748 | 0.00130 |
| 389 | 0.00010 | 434 | 0.02040 | 479 | 0.03750 | 524 | 0.06880 | 569 | 0.07110 | 614 | 0.10040 | 659 | 0.02080 | 704 | 0.00500 | 749 | 0.00120 |
| 390 | 0.00020 | 435 | 0.02320 | 480 | 0.03760 | 525 | 0.06920 | 570 | 0.07110 | 615 | 0.07640 | 660 | 0.02040 | 705 | 0.00490 | 750 | 0.00120 |
| 391 | 0.00010 | 436 | 0.02640 | 481 | 0.03790 | 526 | 0.06940 | 571 | 0.07070 | 616 | 0.06420 | 661 | 0.01960 | 706 | 0.00480 | 751 | 0.00120 |
| 392 | 0.00010 | 437 | 0.02980 | 482 | 0.03830 | 527 | 0.06960 | 572 | 0.07060 | 617 | 0.06040 | 662 | 0.01860 | 707 | 0.00460 | 752 | 0.00110 |
| 393 | 0.00020 | 438 | 0.03390 | 483 | 0.03870 | 528 | 0.06950 | 573 | 0.07050 | 618 | 0.05990 | 663 | 0.01780 | 708 | 0.00440 | 753 | 0.00110 |
| 394 | 0.00020 | 439 | 0.03870 | 484 | 0.03930 | 529 | 0.06990 | 574 | 0.07030 | 619 | 0.06020 | 664 | 0.01730 | 709 | 0.00430 | 754 | 0.00110 |
| 395 | 0.00020 | 440 | 0.04390 | 485 | 0.04000 | 530 | 0.06990 | 575 | 0.06990 | 620 | 0.05820 | 665 | 0.01680 | 710 | 0.00420 | 755 | 0.00100 |
| 396 | 0.00020 | 441 | 0.05030 | 486 | 0.04030 | 531 | 0.07000 | 576 | 0.06970 | 621 | 0.05670 | 666 | 0.01640 | 711 | 0.00410 | 756 | 0.00100 |
| 397 | 0.00020 | 442 | 0.05730 | 487 | 0.04110 | 532 | 0.07020 | 577 | 0.06970 | 622 | 0.05520 | 667 | 0.01600 | 712 | 0.00390 | 757 | 0.00100 |
| 398 | 0.00020 | 443 | 0.06570 | 488 | 0.04170 | 533 | 0.07060 | 578 | 0.06920 | 623 | 0.05580 | 668 | 0.01570 | 713 | 0.00380 | 758 | 0.00100 |
| 399 | 0.00020 | 444 | 0.07490 | 489 | 0.04240 | 534 | 0.07050 | 579 | 0.06910 | 624 | 0.05660 | 669 | 0.01590 | 714 | 0.00370 | 759 | 0.00090 |
| 400 | 0.00020 | 445 | 0.08550 | 490 | 0.04330 | 535 | 0.07080 | 580 | 0.06880 | 625 | 0.05690 | 670 | 0.01580 | 715 | 0.00350 | 760 | 0.00090 |
| 401 | 0.00030 | 446 | 0.09650 | 491 | 0.04410 | 536 | 0.07090 | 581 | 0.06860 | 626 | 0.05720 | 671 | 0.01500 | 716 | 0.00350 | 761 | 0.00080 |
| 402 | 0.00030 | 447 | 0.10810 | 492 | 0.04530 | 537 | 0.07100 | 582 | 0.06840 | 627 | 0.05720 | 672 | 0.01420 | 717 | 0.00330 | 762 | 0.00080 |
| 403 | 0.00030 | 448 | 0.11820 | 493 | 0.04630 | 538 | 0.07100 | 583 | 0.06820 | 628 | 0.06190 | 673 | 0.01370 | 718 | 0.00320 | 763 | 0.00080 |
| 404 | 0.00030 | 449 | 0.12840 | 494 | 0.04730 | 539 | 0.07100 | 584 | 0.06820 | 629 | 0.09160 | 674 | 0.01320 | 719 | 0.00310 | 764 | 0.00080 |
| 405 | 0.00040 | 450 | 0.13540 | 495 | 0.04860 | 540 | 0.07120 | 585 | 0.06780 | 630 | 0.17380 | 675 | 0.01270 | 720 | 0.00300 | 765 | 0.00080 |
| 406 | 0.00040 | 451 | 0.14010 | 496 | 0.04980 | 541 | 0.07140 | 586 | 0.06770 | 631 | 0.18410 | 676 | 0.01230 | 721 | 0.00290 | 766 | 0.00080 |
| 407 | 0.00040 | 452 | 0.14060 | 497 | 0.05100 | 542 | 0.07160 | 587 | 0.06750 | 632 | 0.12410 | 677 | 0.01190 | 722 | 0.00290 | 767 | 0.00070 |
| 408 | 0.00050 | 453 | 0.13770 | 498 | 0.05210 | 543 | 0.07170 | 588 | 0.06700 | 633 | 0.08320 | 678 | 0.01150 | 723 | 0.00280 | 768 | 0.00070 |
| 409 | 0.00060 | 454 | 0.13200 | 499 | 0.05350 | 544 | 0.07160 | 589 | 0.06650 | 634 | 0.11220 | 679 | 0.01110 | 724 | 0.00260 | 769 | 0.00070 |
| 410 | 0.00070 | 455 | 0.12370 | 500 | 0.05440 | 545 | 0.07180 | 590 | 0.06610 | 635 | 0.13690 | 680 | 0.01070 | 725 | 0.00260 | 770 | 0.00070 |
| 411 | 0.00080 | 456 | 0.11470 | 501 | 0.05550 | 546 | 0.07190 | 591 | 0.06570 | 636 | 0.09600 | 681 | 0.01040 | 726 | 0.00250 | 771 | 0.00060 |
| 412 | 0.00080 | 457 | 0.10560 | 502 | 0.05670 | 547 | 0.07190 | 592 | 0.06530 | 637 | 0.06010 | 682 | 0.01010 | 727 | 0.00240 | 772 | 0.00060 |
| 413 | 0.00100 | 458 | 0.09710 | 503 | 0.05770 | 548 | 0.07200 | 593 | 0.06480 | 638 | 0.04420 | 683 | 0.00980 | 728 | 0.00240 | 773 | 0.00060 |
| 414 | 0.00120 | 459 | 0.08950 | 504 | 0.05860 | 549 | 0.07200 | 594 | 0.06440 | 639 | 0.03820 | 684 | 0.00950 | 729 | 0.00230 | 774 | 0.00060 |
| 415 | 0.00140 | 460 | 0.08420 | 505 | 0.05950 | 550 | 0.07180 | 595 | 0.06390 | 640 | 0.03550 | 685 | 0.00920 | 730 | 0.00220 | 775 | 0.00060 |
| 416 | 0.00160 | 461 | 0.07880 | 506 | 0.06040 | 551 | 0.07200 | 596 | 0.06370 | 641 | 0.03400 | 686 | 0.00890 | 731 | 0.00220 | 776 | 0.00060 |
| 417 | 0.00190 | 462 | 0.07570 | 507 | 0.06130 | 552 | 0.07190 | 597 | 0.06470 | 642 | 0.03280 | 687 | 0.00860 | 732 | 0.00210 | 777 | 0.00050 |
| 418 | 0.00220 | 463 | 0.07310 | 508 | 0.06180 | 553 | 0.07210 | 598 | 0.06450 | 643 | 0.03210 | 688 | 0.00830 | 733 | 0.00200 | 778 | 0.00050 |
| 419 | 0.00250 | 464 | 0.07040 | 509 | 0.06260 | 554 | 0.07200 | 599 | 0.06330 | 644 | 0.03160 | 689 | 0.00810 | 734 | 0.00200 | 779 | 0.00060 |
| 420 | 0.00290 | 465 | 0.06810 | 510 | 0.06310 | 555 | 0.07200 | 600 | 0.06260 | 645 | 0.03180 | 690 | 0.00790 | 735 | 0.00190 | 780 | 0.00050 |
| 421 | 0.00340 | 466 | 0.06550 | 511 | 0.06380 | 556 | 0.07210 | 601 | 0.06210 | 646 | 0.04020 | 691 | 0.00770 | 736 | 0.00180 | | |
| 422 | 0.00390 | 467 | 0.06290 | 512 | 0.06450 | 557 | 0.07200 | 602 | 0.06160 | 647 | 0.05460 | 692 | 0.00750 | 737 | 0.00180 | | |
| 423 | 0.00450 | 468 | 0.05980 | 513 | 0.06510 | 558 | 0.07210 | 603 | 0.06170 | 648 | 0.04800 | 693 | 0.00720 | 738 | 0.00170 | | |
| 424 | 0.00520 | 469 | 0.05700 | 514 | 0.06550 | 559 | 0.07210 | 604 | 0.06130 | 649 | 0.03630 | 694 | 0.00700 | 739 | 0.00160 | | |

| UNIFIED GLARE RATING | | | | | | | | | | |
|----------------------|----------------------|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|
| Reflectances | | | | | | | | | | |
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room Size | UGR Viewed Crosswise | | | | | UGR Viewed Endwise | | | | |
| X=2H | Y=2H | 5.0 | 6.0 | 5.4 | 6.3 | 6.6 | 4.7 | 5.7 | 5.0 | 6.3 |
| | 3H | 5.7 | 6.6 | 6.1 | 6.9 | 7.3 | 6.0 | 6.9 | 6.4 | 7.6 |
| | 4H | 5.9 | 6.7 | 6.4 | 7.1 | 7.5 | 6.5 | 7.3 | 6.9 | 8.0 |
| | 6H | 6.0 | 6.8 | 6.5 | 7.2 | 7.6 | 6.9 | 7.6 | 7.3 | 8.4 |
| | 8H | 6.1 | 6.8 | 6.5 | 7.2 | 7.6 | 7.0 | 7.7 | 7.4 | 8.5 |
| | 12H | 6.1 | 6.7 | 6.5 | 7.1 | 7.5 | 7.0 | 7.7 | 7.4 | 8.5 |
| 4H | 2H | 5.3 | 6.1 | 5.7 | 6.4 | 6.8 | 5.0 | 5.8 | 5.4 | 6.5 |
| | 3H | 6.1 | 6.8 | 6.6 | 7.2 | 7.6 | 6.5 | 7.2 | 6.9 | 8.0 |
| | 4H | 6.5 | 7.1 | 6.9 | 7.5 | 8.0 | 7.2 | 7.7 | 7.6 | 8.6 |
| | 6H | 6.7 | 7.2 | 7.2 | 7.7 | 8.2 | 7.7 | 8.2 | 8.1 | 8.6 |
| | 8H | 6.8 | 7.2 | 7.2 | 7.7 | 8.2 | 7.8 | 8.3 | 8.3 | 9.2 |
| | 12H | 6.8 | 7.2 | 7.3 | 7.7 | 8.1 | 7.9 | 8.3 | 8.4 | 9.3 |
| 8H | 4H | 6.6 | 7.1 | 7.1 | 7.6 | 8.0 | 7.2 | 7.7 | 7.7 | 8.6 |
| | 6H | 7.0 | 7.4 | 7.5 | 7.9 | 8.3 | 7.9 | 8.2 | 8.4 | 9.2 |
| | 8H | 7.1 | 7.4 | 7.6 | 7.9 | 8.4 | 8.1 | 8.4 | 8.6 | 9.5 |
| | 12H | 7.2 | 7.5 | 7.7 | 8.0 | 8.5 | 8.3 | 8.6 | 8.8 | 9.7 |
| 12H | 4H | 6.6 | 7.1 | 7.1 | 7.5 | 8.0 | 7.2 | 7.6 | 7.7 | 8.6 |
| | 6H | 7.0 | 7.3 | 7.5 | 7.8 | 8.4 | 7.8 | 8.2 | 8.4 | 9.2 |
| | 8H | 7.2 | 7.5 | 7.7 | 8.0 | 8.5 | 8.1 | 8.4 | 8.7 | 9.5 |

The UGR values have been calculated according to CIE Publ. 117.

Spacing-to-Height-Ratio = 1.00.

The highlighted value refers to the UGR value which the luminaire would have in a reference situation with room dimensions of 4H/8H and degrees of reflectance of 20% for the floor, 50% for the walls and 70% for the ceiling, as recommended by DLC.

The UGR value may vary depending on application specific parameters.